

AMENDMENTS TO THE SPECIFICATION:

Page 1, before paragraph 0001, insert as new paragraph:

--CROSS-REFERENCE TO RELATED APPLICATION

This application is a National Stage entry of International Application No. PCT/TR2003/000092, filed December 2, 2003, the entire specification claims and drawings of which are incorporated herewith by reference. –

Page 1, before paragraph 0001, please delete the Inventor and Inventor's City and Country:

~~Metin Tulgar Istanbul, Turkey~~

Page 1, Lines 5-17, please delete the Abstract in its entirety. On the page following page 13, please insert the following Abstract:

ABSTRACT

An externally powered and controlled neuro-implant system for transmission of stimulating therapeutic signals to an implantable electrode. The system basically consists of two coils, one external active coil and one internal passive coil each housed in a ferrite pot core which enhances inductive coupling and minimizes the coils in size, thus facilitating the construction of a passive coils array to enable the usage of multi-contact electrodes for swithching of the electrical stimulation between a number of sites along the target neurons. The implanted part of the system, comprising only a coil housed in a ferrite pot core, is fully passive. The passive coil, that is implanted under the skin, is connected with the electrode placed in neighbouring of the target neural tissue via implanted thin medical grade wires. The active coil is placed on the skin overlying the passive coil. Therapeutic signals produced by the transmitter outside the body are transmitted through the coils by inductive coupling across the skin of the patient.